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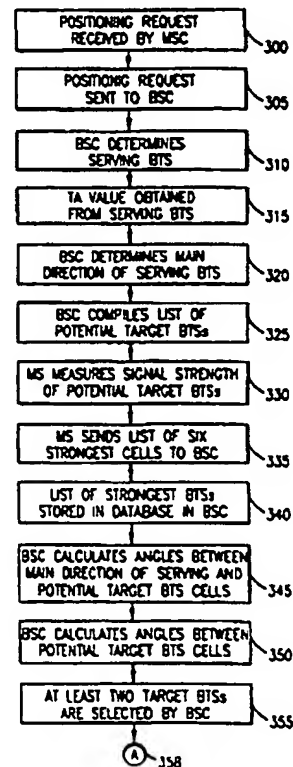
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(54) Abstract Title

Selection of positioning handover candidates based on angle

(57) A telecommunications system and method for determining optimal target Base Transceiver Stations (BTSs) to perform positioning handovers and obtain positioning data is disclosed. When a positioning request is received by a Base Station Controller (BSC) serving the Mobile Station (MS) to be positioned, the serving BSC accesses a database within the BSC, which contains a list of cells belonging to candidate target BTSs. Based on this information, and the main antenna direction of the serving BTS, two candidates for positioning handovers are selected from the list such that the angle between the main direction of two adjacent BTSs is nearly equivalent to the angle between the main direction of two additional adjacent BTSs. By selecting the target BTSs in this manner, it can be ensured that the target BTSs surround the MS, thus decreasing the error in the location calculations performed by a Positioning Center (PC).



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